

# Monoclonal Anti-SARS Coronavirus Spike Glycoprotein S1 Domain (produced *in vitro*)

**Catalog No. NR-53787**

**Sino Biological Catalog No. 40150-MM10**

**For research use only. Not for use in humans.**

## Contributor and Manufacturer:

Sino Biological, Wayne, Pennsylvania, USA

## Product Description:

Antibody Class: IgG1

Mouse monoclonal antibody prepared against the severe acute respiratory syndrome coronavirus (SARS-CoV) spike glycoprotein (S1) domain was purified from a hybridoma supernatant by protein A affinity chromatography. The B cell hybridoma was generated by the fusion of mouse myeloma cells with splenocytes from mice immunized with purified recombinant SARS-CoV S1 domain (Sino Biological 40150-V08B1).<sup>1</sup>

## Material Provided:

Each vial of NR-53787 contains approximately 50 µL of purified monoclonal antibody in phosphate buffered saline (PBS). The concentration, expressed as milligrams per milliliter, is shown on the Certificate of Analysis.

## Packaging/Storage:

NR-53787 was packaged aseptically in screw-capped plastic vials and is provided frozen on dry ice. The product should be stored at -20°C to -80°C immediately upon arrival. NR-53787 can be stored at 2°C to 8°C for one month without detectable loss of activity. Freeze-thaw cycles should be avoided.

## Functional Activity:

NR-53787 is specific to the SARS-CoV S1 domain as shown in ELISA and western blot analysis (Figure 1), with no cross reactivity with the S1 domain from SARS-CoV-2. No cross reactivity was observed in ELISA and western blot with spike glycoprotein receptor binding domain (RBD) from SARS-CoV-2 and SARS-CoV.<sup>1</sup>

## Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Monoclonal Anti-SARS Coronavirus Spike Glycoprotein S1 Domain (produced *in vitro*), NR-53787."

## Biosafety Level: 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. Biosafety in Microbiological and Biomedical Laboratories. 6th ed. Washington, DC: U.S. Government Printing Office, 2020; see [www.cdc.gov/biosafety/publications/bmbl5/index.htm](http://www.cdc.gov/biosafety/publications/bmbl5/index.htm).

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## References:

1. Lu, Z., Personal Communication.

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**Figure 1: Representative Anti-SARS-CoV Western Blot**

